

CLAIMS

What is claimed is:

- 1 1. A wireless mobile phone comprising:
2
3 a body casing having a plurality of surfaces;
4 an input keypad disposed on said a first surface of said body casing to
5 facilitate entry of alphanumeric data;
6 at least a first button disposed on a second surface of said body casing; and
7 complementary logic in support of the at least first button to facilitate entry of
8 alphanumeric data in encoded representations of a variable length encoding
9 scheme using said at least first button.
- 1 2. The wireless mobile phone of claim 1, wherein said mobile phone further
2 comprises a display, and said complementary logic further echoes on said display
3 alphanumeric data represented by said encoded representations entered using said
4 at least first button.
- 1 3. The wireless mobile phone of claim 1, wherein each of said at least first
2 button includes one or more light emitting diodes (LED), and said complementary
3 logic further lights said LEDs of said at least first button to visually echo encoded
4 representations of a variable length encoding scheme of letters, numbers or
5 punctuations entered through said input keypad.

1 4. The wireless mobile phone of claim 1, wherein said mobile phone further
2 comprises a transceiver to send and receive signals, and an adapter interface to
3 removably attach a device capable of vibrating to said mobile phone, and to
4 vibrationally output alphanumeric data received through said transceiver using said
5 removably attached capable of vibrating device.

1 5. The wireless mobile phone of claim 4, wherein said alphanumeric data are
2 vibrationally outputted through vibrational manifestation of encoded representations
3 of an encoding scheme of the alphanumeric data.

1 6. The wireless mobile phone of claim 1, wherein said encoded representations
2 are Morse codes.

1 7. The wireless mobile phone of claim 1, wherein said encoded representations
2 are encoded representations of a custom variable length encoding scheme.

1 8. The wireless mobile phone of claim 7, wherein said encoded representations
2 comprise a first code representing a phrase of one or more words in length.

1 9. The wireless mobile phone of claim 8, wherein said phrase of one or more
2 words in length is user specifiable.

1 10. The wireless mobile phone of claim 8, wherein said encoded representations
2 further comprise a second code representing a second user selected word/phrase.

1 11. The wireless mobile phone of claim 7, wherein said encoded representations
2 comprise a code representing a punctuation selected from a group of punctuations
3 consisting of a colon, a semi-colon, a left parenthesis, a right parenthesis, and an
4 exclamation.

1 12. The wireless mobile phone of claim 11, wherein said code representing the
2 selected punctuation is
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Selected Punctuation	Code
/ (slash)	<i>dahditdahditdah</i>
, (comma)	<i>dahdahditditdah</i>
. (period)	<i>dahdahdahditdah</i>
? (question mark)	<i>ditdahditdah</i>
: (colon)	<i>ditdahdahditdah</i>
; (semicolon)	<i>ditdahditditdah</i>
! (exclamation)	<i>ditdahditdahdit</i>
((left parenthesis)	<i>ditditdahditdit</i>
) (right parenthesis)	<i>dahdahditdahdah</i>
space	<i>ditditditdit</i>
' (single quote)	<i>dahditdahdahdah</i>
" (double quote)	<i>ditdahditdahdah</i>
- (hyphen)	<i>ditdahdahdahdit</i>
+ (plus sign)	<i>dahditditditdah</i>
= (equal sign)	<i>ditditdahdahdit</i>

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13. The wireless mobile phone of claim 7, wherein said encoded representations comprise a code representing a letter selected from a group of letters consisting of

Letters	Custom Codes
E	<i>ditdit</i>
G	<i>dahdahdahdit</i>
H	<i>dahditdah</i>
I	<i>ditdahdah</i>
K	<i>ditdahditdit</i>
L	<i>dahdahdit</i>
M	<i>dahdahdahdah</i>
T	<i>dahdah</i>
W	<i>ditditdahdah</i>

14. The wireless mobile phone of claim 1, wherein said complementary logic further maps each of said entered variable length encode representations to a corresponding code of a fixed length binary representation scheme for representing alphanumeric data.

15. The wireless mobile phone of claim 1, wherein said wireless mobile phone further comprises at least an additional second button, and said encoded representations comprise encoded representations for letters A-Z, numbers 0-9, and two phrases of one or more words formed using said first and second buttons.

1 16. The wireless mobile phone of claim 1, wherein said wireless mobile phone
2 further comprises at least an additional second button having one or more frequently
3 used encoded representations associated with the additional second button.

1 17. The wireless mobile phone of claim 16, wherein said one or more frequently
2 used encoded representations comprises an encoded representation corresponding
3 to a "space".

1 18. The wireless mobile phone of claim 1, wherein said first and second surfaces
2 are different surfaces of the body casing.

1 19. The wireless mobile phone of claim 18, wherein said first surface is a front
2 surface of the body casing, and said second surface is a second surface of the body
3 casing.

1 20. The wireless mobile phone of claim 1, wherein said first and second surfaces
2 are the same surface of the body casing.

1 21. A wireless mobile phone comprising:
2 a transceiver to send and receive signals;
3 an adapter interface to removably attach a device capable of vibrating to said
4 mobile phone; and
5 complementary logic in support of said transceiver and said adapter interface
6 to vibrationally output alphanumeric data received via said transceiver through
7 vibrational manifestation of encoded representations of a variable length encoding

8 scheme of the received alphanumeric data using the removably attached capable of
9 vibrating device.

1 22. The wireless mobile phone of claim 21, wherein said mobile phone further
2 comprises a display; and said means are further coupled to said display and echo
3 on said display said alphanumeric data received through said transceiver.

1 23. The wireless mobile phone of claim 21, wherein said encoded
2 representations are Morse codes.

1 24. The wireless mobile phone of claim 21, wherein said encoded
2 representations are encoded representations of a custom variable length encoding
3 scheme.

1 25. The wireless mobile phone of claim 24, wherein said encoded
2 representations comprise a first code representing a phrase of one or more words in
3 length.

1 26. The wireless mobile phone of claim 25, wherein said phrase of one or more
2 words in length is user specifiable.

1 27. The wireless mobile phone of claim 24, wherein said encoded
2 representations comprise a code representing a punctuation selected from a group
3 of punctuations consisting of a colon, a semi-colon, a left parenthesis, a right
4 parenthesis, and an exclamation.

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Letters	Custom Codes
E	<i>ditdit</i>
G	<i>dahdahdit</i>
H	<i>dahditdah</i>
I	<i>ditdahdah</i>
K	<i>ditdahditdit</i>
L	<i>dahdahdit</i>
M	<i>dahdahdahdah</i>
T	<i>dahdah</i>
W	<i>ditditdahdah</i>

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1 30. The wireless mobile phone of claim 21, wherein said alphanumeric data are
2 received in fixed length binary representations of a fixed length character encoding
3 scheme, and said complementary logic maps each of the received fixed length
4 binary representations to a corresponding encoded representation of the variable
5 length encoding scheme.

1 31. A wireless mobile phone comprising:
2 a body casing having a plurality of surfaces;
3 an input keypad disposed on said a first of said surfaces to facilitate entry of
4 alphanumeric data;
5 at least a first button disposed on a second of said surfaces of said body
6 casing, having first one or more light emitting diodes (LEDs); and

7 complementary logic in support of the input keypad and the at least first
8 button to light said LEDs of said at least first button to visually echo encoded
9 representations of a variable length encoding scheme of letters, numbers or
10 punctuations entered through said input keypad.

1 32. The wireless mobile phone of claim 31, wherein said encoded
2 representations are Morse codes.

1 33. The wireless mobile phone of claim 31, wherein said encoded
2 representations are encoded representations of a custom variable length encoding
3 scheme.

1 34. The wireless mobile phone of claim 33, wherein said encoded
2 representations comprise a first code representing a phrase of one or more words in
3 length.

1 35. The wireless mobile phone of claim 34, wherein said phrase of one or more
2 words in length is user specifiable.

1 36. The wireless mobile phone of claim 33, wherein said encoded
2 representations comprise a code representing a punctuation selected from a group
3 of punctuations consisting of a colon, a semi-colon, a left parenthesis, a right
4 parenthesis, and an exclamation.

1 37. The wireless mobile phone of claim 36, wherein said code representing the
2 selected punctuation is

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Selected Punctuation	Code
/ (slash)	<i>dahditdahditdah</i>
, (comma)	<i>dahdahditditdah</i>
. (period)	<i>dahdahdahditdah</i>
? (question mark)	<i>ditdahditdah</i>
: (colon)	<i>ditdahdahditdah</i>
; (semicolon)	<i>ditdahditditdah</i>
! (exclamation)	<i>ditdahditdahdit</i>
((left parenthesis)	<i>ditditdahditdit</i>
) (right parenthesis)	<i>dahdahditdahdah</i>
space	<i>ditditditdit</i>
' (single quote)	<i>dahditdahdahdah</i>
" (double quote)	<i>ditdahditdahdah</i>
- (hyphen)	<i>ditdahdahdahdit</i>
+ (plus sign)	<i>dahditditditdah</i>
= (equal sign)	<i>ditditdahdahdit</i>

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- 1 38. The wireless mobile phone of claim 33, wherein said encoded
2 representations comprise a code representing a letter selected from a group of
3 letters consisting of

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Letters	Custom Codes
E	<i>ditdit</i>

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1 41. A wireless mobile phone comprising:
2 a body casing having a top surface and a side surface;
3 a first button disposed on either said top surface or said side surface of said
4 body casing;
5 a second button disposed on the same top/side surface of said body casing
6 adjacent to said first button; and

means coupled to the first and second buttons and to the transceiver to facilitate entry of alphanumeric data in encoded representations of a variable length encoding scheme using said first and second buttons.

42. The wireless mobile phone of claim 41, wherein said wireless mobile phone further comprises an input key pad to input alphanumeric data, and said first and second buttons comprises light emitting diodes to visually echo the variable length encoded representations of the alphanumeric data entered.

43. The wireless mobile phone of claim 41, wherein wireless mobile phone further comprises transceiver means to receive textual messages, and adapter means to removably receive a vibrational device to vibrationally output the variable length encoded representations of the textual messages received.

44. A wireless mobile phone comprising:

- a body casing having a top surface and a side surface;
- a first button disposed on either said top surface or said side surface of said body casing;
- a second button disposed on the same top/side surface of said body casing adjacent to said first button; and
- a micro-controller and associated memory, including programming instructions stored in said memory, coupled to the first and second buttons and to the transceiver to facilitate entry of alphanumeric data in encoded representations of a variable length encoding scheme using said first and second buttons.

1 45. The wireless mobile phone of claim 44, wherein said wireless mobile phone
2 further comprises an input key pad to input alphanumeric data, and said first and
3 second buttons comprises light emitting diodes to visually echo the variable length
4 encoded representations of the alphanumeric data entered.

1 46. The wireless mobile phone of claim 44, wherein wireless mobile phone
2 further comprises transceiver means to receive textual messages, and adapter
3 means to removably receive a vibrational device to vibrationally output the variable
4 length encoded representations of the textual messages received.

1 47. In a wireless mobile phone, a method comprising:
2 receiving encoded representations of a variable length encoding scheme of
3 alphanumeric data entered using at least a first button disposed on a top or side
4 surface of the mobile phone, said mobile phone also having an input keypad
5 disposed on a front surface to facilitate entry of alphanumeric data; and
6 in response, electrically generating signals corresponding to fixed length
7 digital representations of said alphanumeric data entered through entry of their
8 variable length encoded representations of said variable length encoding scheme
9 using said at least a first button.

1 48. The method of claim 47, wherein said method further comprises visually
2 echoing on a display of said mobile phone said alphanumeric data entered through
3 entry of their variable length encoded representations of said variable length
4 encoding scheme using said at least a first button.

1 52. The method of claim 51, wherein the method further comprises mapping the
2 variable length encoded representations of the text messages into corresponding
3 conventional fixed length digital character set representations, in accordance with
4 the variable length encoding scheme.

1 53. The method of claim 51, wherein said encoded representations are Morse
2 codes.

1 54. The method of claim 51 wherein said encoded representations are encoded
2 representation of a custom encoding scheme.

1 55. The method of claim 54, wherein said variable length encoded
2 representations comprise a first code representing a first user selected word/phrase.

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